IN THE CLAIMS

- 1.-30. (Canceled)
- 31. (Previously Presented) A golf ball comprising:
 - a core, wherein the core comprises at least one layer formed cf a composition comprising at least one rubber, a metal salt of an αβ-unsa urated carboxylic acid, an initiator, and at least one thermoplastic material having a Vicat-softening temperature of at least about 38° C selected from the group consisting of a copoly(ether-ester), copoly(ether-amide), copoly(ester-amide), copoly(urethane-ether), copoly(urethane-ester), maleic an sydride grafted styrene-ethylene-butylene-styrene copolymers, and mixtures thereof; and a cover disposed about the core, wherein the cover at least one layer comprising an ionomer, balata, or urethane material.
- 32. (Previously Presented) The golf ball of claim 31, wherein the cover has a thickness of about 0.03 inches or greater.
- 33. (Previously Presented) The golf ball of claim 31, wherein the cover has a hardness of about 40 Shore D or greater.
- 34. (Previously Presented) The golf ball of claim 31, wherein the cover comprises an inner cover and an outer cover.
- 35. (Previously Presented) The golf ball of claim 34, wherein the outer cover comprises a thermoset castable reactive liquid material.
- 36. (Previously Presented) The golf ball of claim 34, wherein the inner cover comprises an ionomer.
- 37. (Previously Presented) The golf ball of claim 36, wherein the ionomer comprises at least one E/X/Y copolymer, wherein E comprises ethylene, wherein X comprises a softening comonomer, and wherein Y comprises at least one acrylic or methacrylic acid neutralized to 100 percent.

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- 38. (Previously Presented) A golf ball comprising a core and a cover, wherein the core comprises at least one layer formed of a composition comprising a rubber, a metal salt of an $\alpha\beta$ -unsaturated carboxylic acid, an initiator, and a thermoplastic material having a Vicatsoftening temperature of at least about 38° C, wherein the thermoplastic reaterial comprises a block polymer selected from the group consisting of copoly(ether-ester), sopoly(etheramide), copoly(ester-amide), copoly(urethane-ether), copoly(urethane-ester), maleic anhydride grafted styrene-ethylene, butylene-styrene copolymer, and mixtures thereof, and wherein the cover comprises at least one layer comprising an ionomer co aprising acid moieties neutralized to 100 percent.
- 39. (Previously Presented) The golf ball of claim 38, wherein the ther noplastic material has a Vicat softening temperature of at least about 50°C.
- 40. (Previously Presented) The golf ball of claim 38, wherein the thet noplastic material has a Vicat softening temperature of at least about 60°C.
- 41. (Canceled)
- 42. (Previously Presented) The golf ball of claim 38, wherein the rubber material is selected from the group consisting of polybutadiene, polyisoprene, ethylene-propylene rubber, styrene-butadiene, styrene-propylene-diene rubber, a polymer of httplene-propylene diene monomer, and combinations thereof.

Please add the following new claims:

- (New) A golf ball comprising a core and a cover, wherein the core comprises at least one layer formed of a composition comprising a rubber, a metal salt of at $\alpha\beta$ -unsaturated carboxylic acid, an initiator, and a thermoplastic material having a Vicat-softening temperature of about 60°C to about 150°C
- 44. (New) The golf ball of claim 43, wherein the thermoplastic mater al comprises a block polymer selected from the group consisting of copoly(ether-ester), copoly(etheramide), copoly(ester-amide), copoly(urethane-ether), copoly(urethane-es er), maleic anhydride grafted styrene-ethylene, butylene-styrene copolymer, and mix tures thereof, and

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wherein the cover comprises at least one layer comprising an ionomer comprising acid moieties neutralized to 100 percent.

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- 45. (New) The golf ball of claim 43, wherein the cover comprises at least one layer comprising an ionomer, balata, or urethane material.
- 46. (New) The golf ball of claim 43, wherein the cover comprises a thermoset castable reactive liquid material.
- 47. (New) The golf ball of claim 43, wherein the cover comprises an timer cover layer comprising a thermoplastic material and an outer cover layer comprising a thermoset material.